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ATGGAATCAGAGACTCTGGTCTTCATATCCATACTGCTCTGGTTATATGGTGTCTGATGGG
M E S Q T L V F I S I L W L Y G A D G
AACATTGTTATGACCCAATCTCCAAATCCATGTACGTGTCAATAGGAGAGAGGGTCACC
N I V M T Q S P K S M Y V S I G E R V T
TTGAGCTGCAAGGCCAGTGAAAAATGTGGATACTTATGTATCCTGGTATCAACAGAAACCA
L S C K A S E N V D T Y V S W Y Q Q K P
GAGCAGTCTCCTAAACTGCTGATATATGGGGCATCCAACCGGTACACTGGGGTCCCCGAT
E Q S P K L L I Y G A S N R Y T G V P D
CGCTTCACGGGCAGTGGATCTGCAACAGATTTCACCTGTACCATCAGCAGTGTGCAGGCT
R F T G S G S A T D F T L T I S S V Q A
GAAGACCTTGCAGATTATCACTGTGGACAGAGTTACAACATATCCATTCAAGTTCGGCTCG
E D L A D Y H C G Q S Y N Y P F T F G S
GGGACAAAGTTGGAAATAAAG
G T K L E I K

FIG. 1A

ATGGGATGGAGCTGTATCATCTCTTCTTGGTAGCAACAGCTACAGGTGTCTCTCCAG
M G W S C I I L F L V A T A T G V L S Q
GTCCAAGTGCAGCAGCCTGGGGCTGACCTTGTGATGCTGGGGCTCCAGTGAAGCTGTCC
V Q L Q Q P G A D L V M P G A P V K L S
TGCTTGGCTTCTGGCTACATCTTCACCAGCTCCTGGATAAACTGGGTGAAGCAGAGCCCT
C L A S G Y I F T S S W I N W V K Q R P
GGACGAGGCCTCGATGGATTGGAAGGATTGATCCTTCCGATGGTGAAGTTCACTACAAT
G R G L E W I G R I D P S D G E V H Y N
CAAGATTTCAAGGACAAGGCCACACTGACTGTAGACAAATCCTCCAGCACAGCCTACATC
Q D F K D K A T L T V D K S S S T A Y I
CAACTCAACAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCTAGAGGATTCTCG
Q L N S L T S E D S A V Y Y C A R G F L
CCCTGGTTTGTCTGAGTGGGGCCAAGGACTCTGGTCACTGTCTCTGCA
P W F A D W G Q G T L V T V S A

FIG. 1B

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ATGGAGACCGATACCTCTCTGCTATGGGTCCTCTGCTATGGGTCCAGGATCAACCGGA
M E T D T L L W V L L L W V P G S T G
GATATTAGATGACCCAGTCTCCGTCGACCTCTCTGCTAGCGTCGGGGATAGGGTCACC
D I Q M T Q S P S T L S A S V G D R V T
ATAACCTGCAAGGCCAGTGAAAATGTGGATACTTATGTATCCTGGTATCAGCAGAAGCCA
I T C K A S E N V D T Y V S W Y Q Q K P
GGCAAAGCTCCCAAGCTTCTAATTTATGGGTCATCCAACCGGTACACTGGGGTACCTTCA
G K A P K L L I Y G A S N R Y T G V P S
CGCTTCAGTGGCAGTGGATCTGGGACCGATTTACCCTCACAATCAGCTCTCTGCAGCCA
R F S G S G S G T D F T L T I S S L Q P
GATGATTTGCCACTTATTACTGCGGACAGAGTTACAATATCCATTACAGTTCGGTCAG
D D F A T Y Y C G Q S Y N Y P F T F G Q
GGGACCAAGGTGGAGGTCAAACGT
G T K V E V K R

FIG. 2A

ATGGGATGGAGCTGGATCTTTCTCTCTCTCTGTCAGTACCGCGGGCGTGCACCTCTCAG
M G W S W I F L F L L S G T A G V H S Q
GTCCAGCTTGTCAGCTCTGGGGCTGAACTCAAGAACTGGGAGCTCCGTGAAGGTCTCC
V Q L V Q S G A E L K K P G S S V K V S
TGCAAAGCTTCTGGCTACATCTTTACTAGCTCCTGGATAAACTGGGTAAAGCAGGCCCTT
C K A S G Y I F T S S W I N W V K Q A P
GGCAGGGGTCTCGATGGATTGGAAGGATGATCCTTCCGATGGTGAAGTTCACTACAAT
G Q G L E W I G R I D P S D G E V H Y N
CAAGATTTCAAGGACAAGGCTACACTTACAGTCGACAAATCCACCAATACAGCCTACATG
Q D F K D K A T L T V D K S T N T A Y M
GAACTGAGCAGCTGAGATCAGAGGACACTGCAGTCTATTACTGTGCAAGAGGATTTCTG
E L S S L R S E D T A V Y Y C A R G F L
CCCTGGTTTGCTGACTGGGGCCAAGGAACCTGGTCACAGTCTCTCTCAG
P W F A D W G Q G T L V T V S S

FIG. 2B

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| | | | | | |
|-------|---|--------------------------------|--------|----------------|----|
| | 1 | | 31 | 36 | 49 |
| huXAF | | OVQLVQSGAELKKFGSSVKVSKKASGYIFT | sswin | WVRQAPGGGLEWIG | |
| huZAF | | OVQLVQSGAELKKFGSSVKVSKKASGYIFT | sswin | WVKQAPGGGLEWIG | |
| DIFF | | -----* | -----* | -----* | |
| haf25 | | OVQLVQSGAEVKKFGSSVKVSKKASGYIFT | sswin | WVRQAPGGGLEWIG | |
| DIFF | | ----- | ----- | ----- | |

| | | | | |
|-------|--------------------|-------------------------|---------|----------|
| | 50 | 67 | 99 | 107 |
| huXAF | ridpsdgevhnqdfkd | KATLTVDKSTNTAYMELSLRSED | AVYYCAR | gflpwfad |
| huZAF | ridpsdgevhnqdfkd | KATLTVDKSTNTAYMELSLRSED | AVYYCAR | gflpwfad |
| DIFF | ----- | ----- | ----- | ----- |
| haf25 | ridpsdgevhnqdfkd | KATLTVDKSTNTAYMELSLRSED | AVYYCAR | gflpwfad |
| DIFF | XXXXXXXXXXXXXXXXXX | *-.*-* | ----- | XXXXXXX |

FIG. 3

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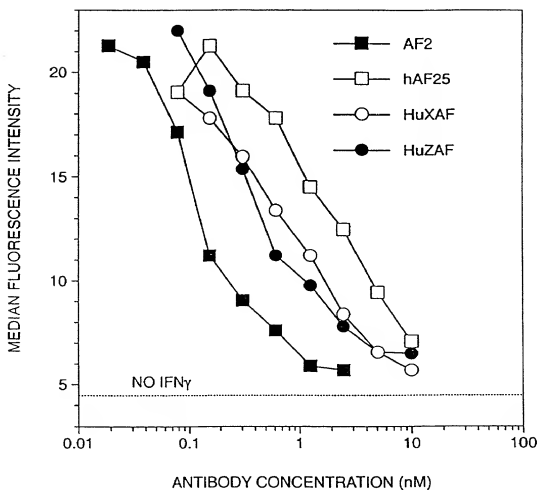


FIG. 4